NEW APPARATUS FOR WASHINGTON FIRE FIGHTERS

Important Recent Improvements in Chief Dutton's Department, Both in the Installation of New Devices and in the Personnel of the Service. Now Puts the Capital in Rank With Other and Larger Cities of the United States.

improvements have been made in the District Fire Department This is true alike of the installation of new devices to fight fires, in the personnel of the service, and in arrangements perfected to prevent the burning of buildings. These improvements have gone on to an extent which places the department practically upon a new basis.

The policy adopted by the present Chief Engineer, Robert W. Dutton, when he took charge of the department, was to adopt new apparatus as fast as the appropriations of Congress would allow: to improve the condition of the stationhouses and the discipline of the men, and to inaugurate systematic efand special devices, to prevent fires. Chief Dutton believes his department tion as in quelling it when once started.

in harmony. The latter have recom mended to Congress the appropriation of money for apparatus for the latest style and improvement. Additional companies have been established, and all the suggestions of the Chief Engineer have been carried out as far as money was available therefor. The result is a vastly better fire-fighting force than existed two

One of the most costly and valuable pieces of new apparatus purchased is the water tower, quartered at Truck C house and available for all fire runs in the business section. The tower is one of the most perfect of its kind, and is so arranged that connection can be made, the extension pipes elevated, and a two inch stream sent in any direction desired within twenty seconds.

The New Water Tower.

The object of the water tower, however, is not so much quick work as throwing a large volume of water upon a building where the fire has gained headway and has grown too hot for the near approach of the firemen with ordinary apparatus. The water tower is not used at the majority of fires, but is a most effective piece of apparatus when its service is desired. Before the installation of the water tower the department could throw water upon fires only where the firemen could go with the hose of the ordinary equipment. With the tower streams of water can be carried to points much higher than any ladder would reach, and to points where the heat is so great that no man could live. More than that, the tower is capable of throwing a volume of water greater than two ordinary engines.

When working to its full limit two engines are attached and four lines of can be directed at will in any direction the basement of the building, these sets The appropriation for the purchase of men attempted to catch a person fall-old extinguisher it was necessary to in perhaps five seconds. at an elevation from below, and besides were attached, and the building literally these engines was contained in the apstreams of large volume from below. A two-inch stream of water can be thrown more than 110 feet high by the tower.

ITHIN two years important to flood the building with a great volume of water to put out the fire.

As accessory to the water tower, two of the truck companies have been fitted out with auxiliary Siamese two-line deluge sets, which are water towers on a small scale. A line of hose is carried up the highest ladder of the truck to a point fifty feet from the ground. Below are the two line attachments, and a cord running down enables the company to direct the stream. At the top is the Eastman deluge nozzle, which throws a two-inch stream from 180 to 200 feet. This appliance is used much as the water tower is, and they are intended to supplement it. Chief Dutton found it was desirable to provide the department with better facilities for use at big forts, through inspection of buildings fires, and these deluge sets were inand their equipment with fire-escapes stalled at about one-half the cost of a supplementary water tower. In addition to these appliances the department owes as great a duty to the public has in use two-line sets for uniting in in the way of avoidance of conflagra- one stream both outlets of a single Chief Engineer forwarded to the Comhydrant, and several of the engines are missioners a recommendation for the the District Commissioners have worked be put on when a large volume of the first class. An arrangement was old type. The Chief Engineer estimates place of these are two three-gallon ex-



No. 14 Company's Brand New Engine.

the addition of the Hart tower nozzle

Monster Steam Firefighters.

Soon after buying the water tower the

first a 1%-inch stream could be thrown ity of each of these engines is 1,100 gal- limb. Now the jumper lands safely, 155 feet from the base of the tower. By lons of water a minute, and the highest from whatever height, and is never capacity of any engine in the depart- thrown off his feet. the same stream can be thrown 256 feet. ment before their installation was 850 that by the additions already mentioned the effectiveness of the department has been increased 200 per cent.

Along with the new apparatus a number of devices have been introduced for the comfort of the men and their effectiveness in working at fires. The most striking of these is the Miller face mask, which a fireman dons when it is necessary to enter a building filled with smoke to search for missing people, or to carry hose to a point where it can be used more effectively. This mask, shown in the illustration, is of leather and

fits tightly over the head and face. In front is a piece of isinglass which enmouth is a fine-grained sponge, slightly wet, which enables him to breathe without getting smoke into his lungs. man can go into a room where no man could exist a minute without the mask. He can breathe regularly for about five or six minutes, when the sponge begins to clog. At the test made of these devices the firemen remained in a room dense with smoke for sixteen minutes without suffering any inconvenience. This is long enough to find and carry out any person who might be left behind and overcome in a burning build-

their introduction. Each company has one in its regular equipment. Latest in Life-Saving Nets.

ing. The Miller masks have been used

by the department several times since

Of similar utility are the Browder company in the department has been provided. These are a curiously devised piece of apparatus which enables a person to jump from a great height hose from separate hydrants. There is is required. Recently at the G Street effected whereby three old and practi- and land without bouncing up or out of the stream at the top of the tower which fire, when the order was given to flood cally useless engines could be traded in. the net. In the old days when the fire-

Other pieces of apparatus added are

Up-to-Date Steamers of the Latest Pattern, a Water Tower That Literally Furnishes a Deluge. Smoke Marks and Anti-Bouncing Life Saving Nets Now in Use-Firemen Well Paid and Under Perfect Discipline.

engine companies Nos. 3 and 4, at Ten-| "Howd'y" to his chief on the fire ground leytown and Brookland, have been installed with new and complete apparatus. Within a few weeks also chemi- fitted with a 50-foot ladder worked by cal engine company No. 5 will go into commission on Congress Heights. Appropriations have been made for a new engine company in Southwest Washington and for a new truck company in the ings are now in process of completion. and they will be built this year.

An Up-to-Date Truck.

One of the best and most up-to-date pieces of apparatus in the department is the new truck A. This was delivered to the authorities about two months ago two compartments, and it is possible to by the Seagrave Manufacturing Company. It is built of lighter materials and has numerous improvements over dent than by the hose carriage. In adany other truck in the department. The dition these wagons carry two 35-galgallons. The advent of these powerful the new chemical extinguishers of the 75-foot ladder was raised into position lon chemical tanks to be used in emersteamers, fitted with every improvement underwriter type. The old hose car- in the presence of The Times reporter in gency before the engines arrive. 1,200 known to the best builders, has enabled riages were equipped with a six-gallon 17 seconds, carrying with it the deluge feet of chemical engine hose is also a the department to dispense with three extinguisher which required two men to hose and nozzle, and at a fire would have part of the equipment. It is the inten-To this end the Chief Engineer and equipped with deluge nozzles, which can purchase of three new steam engines of the oldest engines, which were of an lift and carry into a building. In the been ready for operation as soon as the

as the latter pulled up.

Besides the big ladder the truck is hand, a 35-foot ladder and a 25-foot out bending or sagging out of position.

The new truck cost \$4,300, and the new engines \$5,700 each.

Items are included in the forthcoming appropriation bill providing for the purchase of three new combination hose and chemical wagons. This piece for apparatus is a great improvement over the hose carriages now in use. They carry from 1,000 to 1,200 feet of bose in lay out two lines at once, instead of ation wagons as fast as money in provided for the purpose.

Chief Dutton has made as many reas in its apparatus. He recommended, and Congress authorized the granting of, twenty days' annual leave to the men in the department. Up to last year no man ever had a furlough, except on sick leave. Every man in the department is rewarded also with extra days of leave for brave and meritorious service. For example, if a foreman on his day off sees a fire and puts it out or sends in a local alarm to the nearest engine house, he is rewarded in this way. On the other hand, no man for neglect of duty or for other misdemeanor is now fined. He is deprived of certain days off, and this has been found an effective mode of punishment. Chief Dutton argued that when a fireman was deprived of his money by a fine, his family as well as himself would be the sufferers. He stopped the paying of money and took away the days of leave, so that the fireman only would feel the deprivation. By a judicious use of this mode of punishment and by positive dismissal on the second offense drunkenness has been practically banished from the de-

It may be said that the men are now better paid and under better and more effective discipline than ever before in the history of the department.

Chief Dutton, soon after being installed in office, began a systematic inspection of all public buildings, semipublic buildings, and others where large assemblages were held. In many cases hallways and exits were changed, the better to enable persons to get out of the buildings in case of fire. The regulations in regard to fire-escapes have been rigidly enforced. The storage and handling of oils and inflammable materials have been carefully looked after. Electric wiring his been improved. Details of firemen to theatrical performances for duty behind the scenes have occasions like the G. A. R. encampment and the Masonic fair. In short, as much attention has been given to preventing fire as to fighting it. The re-



Water Tower Ready for Action.

Since the purchase of the tower it has

the apparatus is fitted with appliances the fire had attained great headward to the fi the apparatus is fitted with appliances ture to dissolve before ready for use, wheels are set with ball bearings, and been ordered. Attention has been given for throwing one, two, or four additional the fire had attained great headway it gines were built by the American Fire dangerous than the risk of being overNow all that is required is to turn the in running to fires on Capitol Hill Chief to protection from fire upon public was quenched as by an outpour from the Engine Company at Seneca Falls, N. Y. come by the flames. If the blanket did extinguisher upside down and it is ready W. T. Belt, whose horse is stabled at The new apparatus was delivered last not part and let the person jumping for service. month, and the engines are now in ser- through with a heavy jolt to the ground Within two years also truck F, in nag lively to beat the truck to the scene

Protected by the New Smoke Mask

truck A house, is obliged to whip up his

This machine was used with good effect been refitted with nozzles and attach- vice as Nos. 2, 6, and 14. The illustra- he would bounce upward perhaps to a Mount Pleasant, has been organized and of conflagration. recently at the burning of the Moses & ments so as to increase its efficiency tion shows No. 14 in front of the house height of ten feet to be thrown upon gone into commission as a protection to It is said that on one or two occasions year there was less fire damage than Sone warshouse when it was necessary 100 per cent. With the fittings it had at on Eighth Street northwest. The capacthe growing suburb. Chemical Foreman Hooper has jovially called for several years previously. DICKENS' "LITTLE DORRIT" AS SHE IS TODAY : : THE PRESIDENT OF A GREAT RAILROAD

of the Pennsylvania Railroad Company,

This is A. J. Cassatt, the president of

work of railroad management three

years ago, after a vacation of seventeen

at Broadway and Cedar Street.

the Pennsylvania Railroad,

now in her ninetieth year, is the original of Dickens' famous character, al-

A few years later the Mittons were living in Johnson Street, Clarendon Square, and a house directly opposite was occupled by the Dickens family. There began Dickens, and would assist him in bis literary work by correcting manuscripts, as in later years he assisted him in law matical laterary work by correcting manuscripts, as in later years he assisted him in law matical laterary work by correcting manuscripts, as in later years he assisted him in law matical laterary work by correcting manuscripts, as and some straw in one of his barns, which our grandmothers used labority of the township, and was re-elections and Hartford Railroad a part of the company under President John Edgar Thomously to produce, made by "Mary Ann son, in 1861, had risen to a position cre
who had entered the service of the company under President John Edgar Thomously to produce, made by "Mary Ann son, in 1861, had risen to a position cre
ed twenty times. the closest friendship-almost ripening names to his friends and relatives, as C. Pilkington.

loved and admired the "child of the old lady is never tired of telling their to his sons; his name for Miss Mitton still "Little Dorrit" is among us, grumpy old man," would serve them recollect that somehow I was always York, several times each week, making dent, and executive officer under Presihearty and well, says "Black and White." with milk; how after church he would 'Dorrit' with Charles." Mrs. Mary Ann Cooper, of Southgate, take her for a walk to "New St. Pancras "And how did you come to get into Church" for the special purpose of star- the Marshalsea, and be famous ever ing at and taking off the pompous beadle afterwards?" who used to strut about its precincts- "Well, I cannot exactly say, but as 1 though the life depicted in the book Dickens imitating his walk and bearing, have told you, Charles and I were, I cannot be said to correspond with her to the delight of others, but to the great think I may say, very fond of one anown, for Mrs. Cooper herself was never indignation of this prototype of Bumble; other, and one day at home he told us: in that dreary debtors' prison. She was how Dickens was out walking when he met a procession of school girls from a in it, and I shall call it 'Little Dorrit.' born on November 27, 1813, in Hatton sedate boarding school, headed by a par- Thus his next work was named." Garden, her father being a well-to-do ticularly prim and severe principal, and farmer named Mitton, who also had a how, seeing an old apple woman, Dickens Cooper is lively and quick, although she place at Sunbury, at which Dickens in bought up her stock and slyly slipped has had some serious accidents in the his early youth was a frequent visitor. two apples into the hands of each girl course of her long life. Once she was The bed "Little Dorrit" now sleeps on and stood by when the horrified principal thrown from her horse and dragged for at Southgate is one Charles Dickens discovered her "very select" establishment munching apples in the street.

Once when staying at Mrs. Cooper's Once when staying at Mrs. Cooper's home at Sunbury, Charles went out, and, borrowing some old clothes, disguised by the control of the following some old clothes, disguised borrowing some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the following some old clothes, disguised by the control of the f the acquaintance with "My Charles," as work, and so clever was his make-up corner which is a perfect gallery of years old, and with but eleven years of turned his attention to the breeding of by acquiring the Long Island Railroad, un the old lady calls the novelist. Mrs. that he completely deceived the shrewd portraits, with a notable one, of course, railroad experience to his credit. Cooper's brother was a school fellow of farmer, who, not having work for him, of "My Charles." Over the mantelpiece Dickens, and would assist him in his lit- was prevailed upon to allow him a place is one of those curious old "samplers"

Who that has read Dickens has not into something more-sprang up, and the he had a way of giving literary names

'The next book I write I shall put you

Now, in her ninetieth year, Mrs. three-quarters of a mile. She has suffered, too, from rheumatism, and is Dickens had a habit of giving nick- Mitton, aged nine, February, 1822."- ated for him in 1872-that of general He was absorbed in these pursuits Grappling with the problem of carry-

his way with great strides to the offices dent George B. Roberts.

Pennsylvania the best organized and best ity, and it seems almost incredible in from Montauk Point to Chicago and equipped railroad in America, Mr. Cas- view of what he has accomplished that will bring passengers through from the satt laid down his burdens and retired to he has been at his task just three West as well as from Long Island and When Mr. Cassatt returned to the private life that he might have leisure years and not thirty. His first notable into the very center of Manhattan Island for travel and for the enjoyment of the move was to acquire large holdings in without the discomforts and delays of life of a country gentleman. While he the Chesapeake and Ohio, Norfolk and ferriage. was abroad he was made a director of Western, and Baltimore and Ohio, and Mr. Cassatt at sixty-three is a model

sports, and a gentleman of leisure. Most More active duties than these he re- territory. people had forgotten that he was the fused to assume, and he devoted himself In order to secure for his railroads the reation as he does to the manifold duman who in 1872, under the presidency to breeding racehorses from the famous traffic of the Great Lakes he took over ties of his responsible positions. of George B. Roberts, had snatched the sire The Bard, at his Chester Brook the Erie and Western Transportation Philadelphia, Wilmington and Baltimore Farm, at Berwyn, Pa. He was one of Company, with its great Buffalo termi-Railroad from the Garretts. This was the prime movers in the Monmouth Park nals, and absorbing the Western New the making of the Pennsylvania as a Association in New Jersey, but when York and Pennsylvania Railroad he conborrowing some old clothes, disguised himself as a farm laborer in search of work, and so clever was his make-up that he completely deceived the shrewd that he completely deceived the shrewd that the completely deceived the shrewd to constitute the ban of a constitute tional prohibition, he sold his stud and pushed into entirely new territory to an admit thereinto the future great historian and essayist. And my turned his attention to the breeding of hackney horses. In order to improve the hackney horses. In order to improve the solution in his ninetieth year, told me that his exhault in the solution in his ninetieth year, told me that his exhault is solved. In that time the young undersurveyor roads about his country home, Mr. Cas- expected in some quarters that he will young The

manager of the Pennsylvania Railroad, when Frank Thomson, the president of ing trains into the heart of the Amer- kind.—London Standard.

instantly the impression that he ation of the great transportation system June 9, 1899, the board of directors elect- rail communication with the East, Mr. Marshalsea," the sweet and charming heyday of youth—how they would call at you this name?" I asked, and the old that he is occupied with great prob
State. This coup of 1872 won for Mr. Caswere over for him. He took his place at now been approved by the rapid transit satt a vice presidency, and in 1874 he bethe head of the corporation, the foundacommission and the board of aldermen, a little place in the Hampstead Road, lady said: "I really cannot say. It lems, and yet is alert and observant, satt a vice presidency, and in 1874 he beher as a child of a bygone age, yet where Cecil Rhodes' grandfather, "a seemed to come; at any rate, I only is seen coming up Cortlandt Street, New dent and having added \$100,000,000 to the

Two years later, when he had made the great things with characteristic rapid- give the Pennsylvania continuous rails years, he was known as a breeder of the road, and on his return he took his establish a community of interest in the of vigorous manhood, robust and hearty. fine horses, an enthusiast on the subject of good roads, a patron of outdoor able adviser of the executive of good roads to preserve the Penn-Although president of seven companies able adviser of the executive officers. sylvania's dominance in the bituminous and director in twenty-three, he devotes

MAN of large stature, who gives and he had had a large share in the cre- the Pennsylvania Railroad, died, and on ican metropolis, and establishing allcapital of his road, he is now prepared Mr. Cassatt began immediately to do to bore the great tunnels which will

himself as assiduously to outdoor rec-

MACAULAY AS A SCHOOLBOY.

Zachary Macaulay placed his three ounger sons, John, Henry William, and Charles, as pupils in the school kept by position, delighting much in